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ABSTRACT OF THE DISCLOSURE

Refracting optical system 1 and 2 relatively shift the second laser beam groups together with respect to the first laser beam groups along the layering direction.

5 The transmission/reflecting optical system for alignment 1R, 2R, 1S and 2S are used, so that the laser beam patterns comprised of the first and second laser beam groups which are emitted from the transmission/reflecting optical systems 1R, 2R, 1S and  
10 2S are shaped to be long in the layering direction of the laser bar, and since separate optical systems are used for shift and alignment, respectively, an individual optical system has a simple configuration.